

# **27<sup>TH</sup> NUCLEAR AIR TREATMENT AND CLEANING CONFERENCE**

## **CONFERENCE WELCOME**

**DR. RONALD R. BELLAMY**

## **CONFERENCE CHAIR**

Welcome to the 27<sup>th</sup> Nuclear Air Treatment and Cleaning Conference, sponsored by the International Society of Air Treatment Technologies, Inc. My name is Ronald Bellamy, and I am the Vice-President of ISNATT. It is my privilege to chair this conference. This is the 27<sup>th</sup> in a series of biennial technical meetings, all designed to provide a forum for air cleaning experts from around the world to exchange ideas, information, technology, issues and issues resolution.

I want to start by introducing the rest of the ISNATT officers, and I'll ask them to stand. James Edwards is President, Curt Graves is Treasurer, and Jim Kriskovich is Secretary. Now, we are in an electronic age, and cell phones and pagers are the norm. I ask that during the sessions you either turn these off, leave them in your room, or choose the mute or vibrate mode. We will be able to place messages for you at the registration desk.

The breaks for these conferences provide an excellent opportunity for interface with your colleagues. Our breaks are being sponsored by several of the corporations represented here:

AAF International; Ben Franklin  
Air Techniques International; Dave Crosby and Julie Davis  
Hollingsworth and Vose; Mary Pierce  
Vista Engineering Technologies; Jim Kriskovich.

Future conferences will provide more opportunities for this type of sponsorship, so please keep this in mind as we plan for the 28<sup>th</sup> conference and beyond. And speaking of future conferences, please fill out the questionnaire you have received before you depart. We are interested in comments on this conference, and your suggestions for future conferences. If you have any topics you would like discussed concerning future

conferences, please be sure to let me know and I will bring it up during the conference wrapup Wednesday morning.

At the registration desk you will also find copies of a CD in PDF format of the proceedings for the 26<sup>th</sup> Conference held two years ago in Richland, Washington. Please pick up your copy if you attended, and also pick up copies for your associates that attended. Additional copies are available for sale at our cost which is \$30.

We have a challenging agenda to complete. Our keynote speakers this morning will present the regulatory issues for new reactor designs, the Hanford Remediation Project, and Fission Product Research. After lunch, which is on your own, we will discuss regulatory issues, and offgas generation and treatment. This evening will include a cash bar reception from 5:30 until 6:30 pm.

Tomorrow Tuesday we will begin at 8:30 am, discussing testing issues. A buffet luncheon sponsored by ISNATT will begin at 11:45 am, and our luncheon speaker will be Ray Burke, Vice-President for the Maine Yankee Atomic Power Company, who will discuss the status of the decommissioning of the Maine Yankee Plant, a full-size pressurized water reactor in Wiscasset, Maine, or more properly, a former PWR. Tuesday afternoon sessions will include a presentation on a HEPA Filter Bank Fire, and the Davis Besse Reactor Head degradation situation. A panel session on the ASME Committee Of Nuclear Air and Gas Treatment activities will follow. Finally, at 4 pm Mr. Edwards will convene a business meeting of ISNATT. Please attend to be involved in the election of future officers and what ISNATT can do for future conferences or other activities.

Hospitality Tuesday evening will be graciously provided by Ellis and Watts, NUCON and Vokes.

Wednesday morning we will again begin at 8:30 am, and conduct an interactive session on control room habitability systems. Formal presentations by regulatory bodies, nuclear public interest groups and stakeholders, and testing companies will be followed by a panel session. All of the speakers will not have prepared papers due to the emergent nature of the issues associated with these systems.

Prior to concluding at noon, we will get together to review the accomplishments of this conference, receive any last-minute thoughts you may have, and discuss plans for future conferences.

Questions and answers, and discussions, are a key part of the information exchange we hope to achieve. Time will be allowed after each presentation for questions, and we can arrange for followup discussions if necessary. You are the key to a successful conference and we look forward to your active participation. Thank you for your attendance.

**27th Nuclear Air Cleaning and Treatment Conference**  
Sheraton Nashville (TN) Downtown

September 22-25, 2002

## **Agenda**

### **Sunday, September 22, 2002**

**Registration 5:00 - 7:00 pm**

### **Monday, September 23, 2002**

**Registration 8 am and through the conference**

**Welcome and Introductions 9:00 am**

**Dr. Ronald R. Bellamy, Vice-President, ISNATT**

**Keynote Presentations 9:15 am to 12:00 Chair, Dr. Ronald R. Bellamy, USNRC**

9:15 - 10:00 New Reactor Licensing, James E. Lyons, USNRC

10:00 - 10:45 An Overview and Status of the Hanford Tank Waste Treatment and Immobilization Plant, Garth Duncan and Clifford Winkler, Bechtel

**Break 10:45 - 11:15 Sponsored by AAF International**

11:15 - 12:00 An Overview of NRC Fission Product Research, Jason Schaperow, USNRC

**Lunch 12:00 - 1:30 pm**

**Regulatory Issues 1:30 - 2:50 pm Chair, Curtis Graves, NUCON International**

1:30 - 1:50 The ASME Process for Generating and Issuing Codes and Standards, Christian Sanna, ASME

- 1:50 - 2:10 Defense Nuclear Facilities Safety Board Air Cleaning Activities, Roger Zavadoski, DNFSB
- 2:10 - 2:30 Nuclear HVAC Utility Group (NHUG), Dennis Adams, FirstEnergy
- 2:30 - 2:50 ASME AG-1 Section FI Experiences, Larry Weber, Techmark Corporation

**Break** 2:50 - 3:20 Sponsored by Air Techniques International

**Offgas Generation and Treatment 3:20 - 4:50 pm Chair, Dennis Adams, FirstEnergy**

- 3:30 - 3:50 Treatment of Off-gases from Melting Reactor Fuel, M.L. Hyder, M.E. Hodges, Harold B. Peacock, Savannah River Technology Center
- 3:50 - 4:10 Air Treatment Issues Associated with a Mixed-Oxide Fuel Fabrication Facility, Timothy Johnson, NRC
- 4:10 - 4:30 Sand Filter Issues at Savannah River Technology Center, Randy Brinkley, SRTC
- 4:30 - 4:50 Technical Issues for Implementing Alternative Source Term at Nuclear Power Reactors - Aerosol Deposition Model in BWR Steam Lines, James Metcalf, Polestar

Adjourn

**Reception 5:30 - 6:30 pm**

**Tuesday September 24, 2002**

**Testing 8:30 - 11:30 am Chair, James Edwards, Flanders/CSC**

- 8:30 - 8:50 Revisions to USNRC Regulatory Guide 1.52, Harold Walker, USNRC

8:50 - 9:10 Airflow Traverse Comparison Using the Equal Area Method and the Log-Linear Method and Including Traverse Location, Eric Banks, NUCON International

9:10 - 9:30 Performance Testing, Seismic, and Environmental Qualification of a Safety Related Chiller, Marc Hemrick, Ellis & Watts

9:30 - 9:50 Laboratory Testing of Nuclear-Grade Activated Charcoal Since Implementation of Generic Letter 99-02, Peter Freeman, NUCON International

**Break** 9:50 - 10:20 Sponsored by Vista Engineering Technologies, L.L.C.

10:20 - 10:40 Dedication of Commercial Prefilters for Nuclear Safety Related Applications, Ben Franklin, AAF International

10:40 - 11:00 Quality Assurance Testing of Filters, David Crosby and Julie Davis, ATI

11:00 - 11:20 Component Leakage Testing Using Tracer Gas Techniques, Peter Lagus, Lagus Applied Technology

**Luncheon 11:45 - 1:15 pm Chair, Dr. Ronald R. Bellamy, USNRC**

**Maine Yankee Decommissioning, Ray Burke, Vice-President, Maine Yankee Atomic Power Company**

**Air Cleaning Issues 1:30 -2:30 pm Chair, Manu Patel, TXU**

1:30 - 1:50 Use of Localized HEPA Filtered Ventilation for Radiological Work, Jerry Eby, Flour Hanford, Inc

1:50 - 2:10 Review of the Davis Besse Reactor Head Issue, Dennis Adams, FirstEnergy

2:10 - 2:30 HEPA Filter Bank Fire, Kevin Hayes, Westinghouse

**Break** 2:30 - 3:00 Sponsored by Hollingsworth & Vose

**Panel Session 3:00 - 4:00 pm Chair, Richard Porco, Ellis & Watts**

**ASME CONAGT Code Status**

Christian Sanna, ASME

James Kriskovich, Vista Engineering

Jack Hayes, USNRC

Wander Ter Kuile, Vokes

**ISNATT Meeting 4:00 - 5:00 Chair, James Edwards, President, ISNATT**

ISNATT Business Meeting

Adjourn

**Wednesday September 25, 2002**

**Control Room Habitability Issues 8:30 - 11:30 am Chair, Jack Hayes, USNRC**

8:30 - 8:50 Nuclear Power Plant Control Room Habitability Improvement  
Action Plan, Stephen La Vie, USNRC

8:50 - 9:10 Utility's View of Control Room Habitability Testing, Steven Schultz,  
Duke Engineering

9:10 - 9:30 United States Control Room Habitability Testing: Summary and  
Lessons Learned, Robert Campbell, TVA

**Break 9:30 - 10:00 Sponsored by ISNATT**

10:00 - 10:20 NEI Issues with Control Room Habitability Systems, Kurt Cozens,  
NEI

10:20 - 10:40 A Summary of Control Room Envelope Inleakage Measurements,  
Peter Lagus, Lagus Applied Technology

10:40 - 11:30 Panel Discussion on Control Room Habitability Systems

**Conference Summary and Wrap Up 11:30 - 12:00**

**Dr. Ronald R. Bellamy, Vice-President, ISNATT**

Adjourn